551
MIDI TO VOLTAGE CONVERTER

Rotary switch to select the Midi modulation source, which appears as a control voltage at the "Controller"-jack. In addition the module sets itself to the Midi channel of the attached Midi source device (e.g. keyboard) if in position "Ch. Select"

Output for the keyboard-control voltage (according to the Midi note-number)

Output for the "Controller"-voltage

Output for the keyboard gate signal

Output for the pitch bend voltage

Indicator LEDs for gate- and controller activity

Output for the modulation wheel voltage

Output for the velocity control voltage

Switch to select keyboard priority

Addition of pitch bend voltage

Legato-mode on/off

Midi activity indicator at Midi-input

Midi-input

Midi-thru

MIDI TO CV INTERFACE
CONTROLLER SOURCE

PAN
SUS.PEDAL — VOLUME
PEDAL — CC20
BREATH — CC21
A.TOUCH — CC22
CH. SELECT

CONTROLLER   KEYBOARD CV

PITCH WHEEL   GATE

MOD. WHEEL   VELOCITY

ADD BEND CV   PRIORITY   KEYB. MODE
ON   LAST   LEGATO
OFF   LOW   RETRIG.

MIDI IN
ACTIVITY

MIDI THRU

MODULAR 551

The M 551 is a module, which transforms an attached Midi signal into a couple of analogue control voltages. Thereby modular synthesizers can be integrated into a Midi-network and controlled by Midi-master-keyboards or Midi-hardware- or software-sequencers/DAWs.

The M 551 derives the following six control voltages from the fed Midi-messages:

– Keyboard CV (from Midi-note-number)
Depending on the 'Priority' switch, the lowest, highest or last received note-on message is getting transformed.
Voltage range: –2/+8 V

– Gate (from the current Midi note-on/note-off commands)

– Velocity (transforms the key velocity [note-on velocity] of the current note-on message)
Voltage range: 0–10 V

– Mod. Wheel (derives a control voltage from Midi-modulation messages [Controller 1].
Voltage range: 0–10 V

– Pitch Wheel (control voltage from the Midi pitch bend commands, bipolar)
Voltage range: ±5 V
(If "Add Bend CV" is active, a pitch bend voltage of ±0,5 V is added internally to the keyboard control voltage).

– Controller (transforms a selectable Midi controller into a control voltage [0–10 V])

Available are:
– *After touch*
– *Breath controller (CC 2)*
– *Foot pedal (CC 4)*
– *Sustain pedal (CC 64)*
– *Panorama (CC 10)*
– *Main volume (CC 7),*
– *the unspecified parameters CC 20, CC 21, CC 22.*

The functions of the three toggle switches are:

– Add Bend CV
In 'on'-position the Midi Pitch bend voltage (attenuated to ±0.5 V) is added internally to the keyboard voltage to ease pitchbending the oscillator

– Priority
Keyboard control voltage/gate signal/velocity voltage are derived from the hightes/lowest/last received note-on message

– Keyboard Mode

Retrig *triggers a new keyboard control voltage/gate signal combination at any struck key*

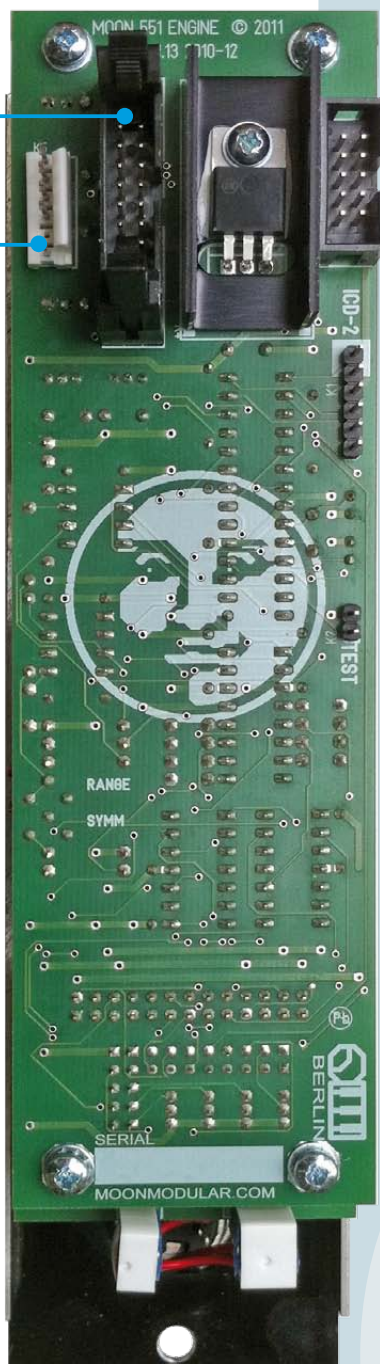**Legato** *starts a new event not before all keys are released*

To select the **Midi-Channel**: Dial the rotary switch to the „Channel Select" position and initiate a MIDI-channel message (e. g. strike a note on a keyboard); the module sets itself to the most recently received MIDI channel (this setting is saved even if the unit is switched off)

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MIDI TO VOLTAGE CONVERTER

Power supply input for COTK cable adapter

Power supply input for synthesizers.com cable adapter

Operating voltage
−Voltage = −15 volts
+Voltage = +15 volts